AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

- 1-10. (cancelled)
- 11. 29. (cancelled)
- 30. (currently amended) A method according to claim 11, wherein: A method for annotating video, comprising:

receiving video, said video depicts a surface at a live event;

receiving a graphic manually created by a human operator during said live event; and blending said graphic with said video such that said graphic appears to be drawn on said surface, said step of blending being performed during said live event;

wherein said step of blending includes performing a flicker filter.

31. (currently amended) A method according to claim 11, wherein: A method for annotating video, comprising:

receiving video, said video depicts a surface at a live event, said video is captured by a first camera;

receiving a graphic manually created by a human operator during said live event, said graphic includes a eurve; curve, said curve is represented as a set of quadrilaterals; and

said curve is represented as a set of quadrilaterals; and

blending said graphic with said video such that said graphic appears to be drawn on said surface, said step of blending being performed during said live event, said step of blending includes tessellating said quadrilaterals if said first camera has been zoomed past a threshold.

- 32. (cancelled)
- 33. (previously presented) A method for annotating video, comprising the steps of:

receiving video, at least a portion of said video depicts at least a portion of a surface at a live event and a set of one or more objects occluding said surface;

receiving a graphic manually created by a human operator during said live event; and blending said graphic with said portion of said video without drawing said graphic over said objects, said steps of receiving video, receiving a graphic and blending are performed during said live event.

34. (previously presented) A method according to claim 33, wherein said step of blending includes the steps of:

accessing color data for said video;

using said color data to access stored blending values, said stored blending values are organized by colors; and

causing a blending of said graphic with said video based on using said blending values.

35. (previously presented) A method according to claim 34, further comprising the steps of:

receiving a selection of a portion of an image, said portion of said image includes a set of colors;

receiving a first blending value for said set of colors; and storing said first blending values.

36. (previously presented) A method according to claim 34, wherein: said step of using includes the steps of:

comparing a first color value for a first pixel in said video to a color map, said color map stores color values and corresponding blending values, and

identifying a first blending value corresponding to said first color value based on said color map; and

said step of causing a blending includes using said first blending value as part of a process to blend said first pixel with a corresponding pixel in said graphic.

37. (previously presented) A method according to claim 33, wherein: said step of receiving a graphic includes receiving two dimensional position information for said graphic created in relation to a two dimensional image.

38. (previously presented) A method according to claim 37, further comprising the steps of:

converting a first set of one or more two dimensional positions to one or more three dimensional locations, said first set of one or more two dimensional positions are based on said two dimensional position information for said graphic; and

converting said one or more three dimensional locations to a second set of one or more two dimensional positions, said step of blending includes blending said graphic with said video based on said second set of one or more two dimensional positions.

39. (previously presented) A method according to claim 38, wherein: said two dimensional image is part of a first video frame; and said step of blending includes blending said graphic with a second video frame different from said first video frame.

40. (previously presented) A method according to claim 33, further comprising the step of:

smoothing said graphic prior to said step of blending, said graphic is a drawing.

41. (previously presented) A method according to claim 33, wherein said step of blending includes:

adding said graphic to a first video image at a first position in said first video image; adding said graphic to a second video image at a second position in said second video image;

said first position is different than said second position;

said first position corresponds to a position of an image of a first portion of said surface in said first video image; and

said second position corresponds to a position of said image of said first portion of said surface in said second video image.

42. (previously presented) A method for annotating video, comprising the steps of:

receiving video, said video depicts a surface at said live event;

receiving two dimensional position information for at least a portion of a graphic created in relation to a two dimensional image;

converting a first set of one or more two dimensional positions to one or more three dimensional locations, said one or more two dimensional positions correspond to said two dimensional position information;

converting said one or more three dimensional locations to a second set of one or more two dimensional positions; and

blending said graphic with said video based on said second set of one or more two dimensional positions.

43. (previously presented) A method according to claim 42, further comprising the steps of:

receiving camera sensor data for a first camera, said video being captured by said first camera, said step of converting said one or more three dimensional locations to a second set of one or more two dimensional positions is performed using said camera sensor data for said first camera.

44. (previously presented) A method according to claim 43, further comprising the steps of:

receiving camera sensor data for a second camera, said two dimensional image being captured by said second camera, said step of converting said first set of one or more two dimensional positions to one or more three dimensional locations uses said camera sensor data for said second camera.

45. (previously presented) A method according to claim 42, further comprising the steps of:

receiving camera sensor data for a first camera, said two dimensional image being captured by said first camera, said step of converting said first set of one or more two dimensional positions to one or more three dimensional locations uses said camera data for said first camera.

46. (previously presented) A method according to claim 42, wherein:

said two dimensional position information is different than said first set of one or more two dimensional positions.

47. (previously presented) A method according to claim 42, further comprising the steps of:

dividing said graphic into segments based on said two dimensional position information, said first set of one or more two dimensional positions are end points of said segments; and

thickening said graphic after said step of converting a first set of one or more two dimensional positions to one or more three dimensional locations.

- 48. (previously presented) A method according to claim 42, wherein: said two dimensional image is part of a first video frame; and said step of blending includes blending said graphic with a second video frame different from said first video frame.
- 49. (previously presented) A method according to claim 42, wherein: said two dimensional image is part of a first video frame from a first camera; and said step of blending includes blending said graphic with a second video frame from a second camera.
- 50. (previously presented) A method according to claim 42, wherein: said first set of one or more two dimensional positions pertains to only a new portion of said graphic; and

said one or more three dimensional locations pertain to said graphic as a whole.

51. (previously presented) A method according to claim 42, further comprising the step of:

creating a three dimensional model of at least a portion of said surface, said step of converting said first set of one or more two dimensional positions to one or more three dimensional locations uses said model.

	52.	(previously presented)	Α	method	according	to	claim	42,	further
comprising the step of:									
	smoothing said graphic prior to said step of blending, said graphic is a drawing.								
	53.	(cancelled)							
	54.	(cancelled)							
	55.	(currently amended) A met	hod	accordin	g to claim :	53,	wherein	said	step of
smoothing said drawing includes the steps of: A method for annotating video, comprising:									
	receiving video, said video depicts a surface at a live event;								
	receiv	ing at least a portion of a draw	/ing	manually	created by	a hu	man op	erato	r during
said live event;									
	smoothing said drawing, said smoothing includes:								
	receiving a new point; point,								
		_adding said new point to a	cont	trol group	if there are	is	a suffic	ient o	distance
between said new point and another point in said control group; group,									
		_drawing a line between said	nev	v point ar	nd said anot	her	point in	said	control
group if there is not more than two points in said control group; group, and									
		removing a next to last poin	t in	said cont	rol group ar	ıd fi	tting a	Bezie	r spline
through points in said control group, if there are more than two points in said control group.									l group.
group; and									
	<u>blendi</u>	ng said smoothed drawing wit	h sa	id video d	uring said 1	ive e	vent.		
	56.	(previously presented) A me	etho	d for ble	nding image	es, c	ompris	ing th	ne steps
of:									
	storing blending values for a set of colors;								
	receiving a first image;								
	receiving a second image after said step of storing;								
	accessing color data for said second image;								
	comparing said color data to said set of colors; and								

causing a blending of said first image with said second image based on using one or more blending values for colors of said set of colors that match said color data for said second image.

57. (previously presented) A method according to claim 56, further comprising the steps of:

receiving a selection of a portion of a third image, said portion of said third image includes a subset of said set of colors; and

receiving one or more blending values for said subset of said set of colors.

- 58. (previously presented) A method according to claim 57, wherein: said second image is part of a video of an event; and said first image is an effect to be added to said video of said event.
- 59. (previously presented) A method according to claim 58, wherein: said video is live video; and said step of receiving one or more blending values includes receiving a number from an operator indicating how to blend said first image with said second image.
 - 60. (previously presented) A method according to claim 56, wherein: said blending values are alpha percentages.
 - 61. (previously presented) A method according to claim 56, wherein: said step of comparing includes the steps of:

comparing a first color value for a first pixel in said second image to a color map, said color map stores color values for said set of colors and said blending values for said set of colors, and

identifying a first blending value corresponding to said first color value based on said color map; and

said step of causing a blending includes using said first blending value as part of a process to blend said first pixel with a corresponding pixel in said first image.

62. (previously presented) A method according to claim 56, wherein:

said steps of accessing and comparing include the steps of:

accessing a first pixel in said second image, said first pixel having a first color value,

accessing additional pixels nearby to said first pixel in said second image, said additional pixels having additional color values,

comparing a first color value for said first pixel to a color map, said color map stores color values for said set of colors and said blending values for said set of colors,

comparing said additional color values to said color map,

identifying a first blending value corresponding to said first color value based on said color map,

identifying additional blending values corresponding to said additional color values based on said color map,

calculating an average of said first blending value and said additional blending values, and

adjusting said average based on a weighting factor; and said step of causing a blending includes using said adjusted average to blend said first pixel with a corresponding pixel in said first image.

- 63. (previously presented) A method according to claim 56, wherein: said step of causing a blending includes performing a flicker filter.
- 64. (previously presented) A method according to claim 56, wherein: said set of colors includes a first subset of colors and a second subset of colors; said first subset of colors is associated with a first blending value; and said second subset of colors represents a taper zone having blending values ranging from at or near said first blending value toward a second blending value, said second blending value represents no blending of said first image with said second image.
 - 65. (previously presented) A method according to claim 56, wherein: said set of colors includes multiple visibly distinct colors.
 - 66. (previously presented) A method according to claim 56, wherein:

said step of accessing color data includes accessing color data for a first portion of said second image, said first portion of said second image corresponds in position to said first image; and

said step of causing a blending includes causing said first image to be blended with said first portion of said second image and not other portions of said second image.

- 67. (previously presented) A method according to claim 56, wherein: said second image is a live video image of a live event; and said steps of storing, receiving a first image, receiving a second image, accessing, comparing and causing are performed during said live event.
- 68. (previously presented) A method according claim 67, further including the step of:

updating said blending values for said set of colors during said live event.

69. (previously presented) An apparatus, comprising:
one or more processors;
an input device in communication with said one or more processors;
an output device in communication with said one or more processors; and
at least one storage device in communication with said one or more processors, said
one or more processors perform a method comprising the steps of:

storing blending values for a set of colors,

receiving a first image,
receiving a second image,
accessing color data for said second image,
comparing said color data to said set of colors, and
causing a blending of said first image with said second image based on using
one or more blending values for colors of said set of colors that match said color data for said
second image.

70. (previously presented) An apparatus according to claim 69, wherein said method further includes the steps of:

receiving a selection of a portion of a third image, said portion of said third image includes a subset of said set of colors; and

receiving one or more blending values for said subset of said set of colors.

71. (previously presented) An apparatus according to claim 69, wherein: said step of comparing includes the steps of:

comparing a first color value for a first pixel of said second image to a color map, said color map stores color values for said set of colors and said blending values for said set of colors, and

identifying a first blending value corresponding to said first color value based on said color map; and

said step of causing a blending includes using said first blending value as part of a process to blend said first pixel with a corresponding pixel in said first image.

72. (previously presented) An apparatus according to claim 69, wherein: said steps of accessing and comparing include the steps of:

accessing a first pixel in said second image, said first pixel having a first color value,

accessing additional pixels nearby to said first pixel in said second image, said additional pixels having additional color values,

comparing a first color value for said first pixel to a color map, said color map stores color values for said set of colors and said blending values for said set of colors,

comparing said additional color values to said color map,

identifying a first blending value corresponding to said first color value based on said color map,

identifying additional blending values corresponding to said additional color values based on said color map,

calculating an average of said first blending value and said additional blending values, and

adjusting said average based on a weighting factor; and

said step of causing a blending includes using said adjusted average to blend said first pixel with a corresponding pixel in said first image.

- 73. (previously presented) An apparatus according to claim 69, wherein: said step of causing a blending includes performing a flicker filter.
- 74. (previously presented) An apparatus according to claim 69, wherein: said set of colors includes a first subset of colors and a second subset of colors; said first subset of colors is associated with a first blending value; and said second subset of colors represents a taper zone having blending values ranging from at or near said first blending value to a second blending value, said second blending value represents no or minimal blending of said first image with said second image.
 - 75. (previously presented) An apparatus according to claim 69, wherein: set of colors includes multiple visibly distinct colors.
- 76. (previously presented) An apparatus according to claim 69, wherein: said step of accessing color data includes accessing color data for a first portion of said second image, said first portion of said second image corresponds in position to said first image; and

said step of causing a blending includes causing said first image to be blended with said first portion of said second image and not other portions of said second image.

- 77. (previously presented) An apparatus according to claim 69, wherein: said second image is a live video image of a live event; and said steps of storing, receiving a first image, receiving a second image, accessing, comparing and causing are performed during said live event.
- 78. (previously presented) An apparatus according claim 77, wherein said method further includes the step of:

updating said blending values for said set of colors during said live event.

- 79. 84. (cancelled)
- 85. (previously presented) An apparatus, comprising: one or more processors;

a drawing device in communication with said one or more processors;

an output device in communication with said one or more processors; and

at least one storage device in communication with said one or more processors, said one or more processors perform a method comprising the steps of:

receiving video, at least a portion of said video depicts at least a portion of a surface at a live event and a set of one or more objects occluding said surface,

receiving a graphic manually created by a human operator during said live event, and

causing a blending of a graphic with said portion of said video without drawing said graphic over said objects, said steps of receiving video, receiving a graphic and causing are performed during said live event.

86. (previously presented) An apparatus according to claim 85, wherein said step of causing a blending includes the steps of:

accessing color data for said video;

using said color data to access stored blending values, said stored blending values are organized by colors; and

causing a blending of said graphic with said video based on using said blending values.

87. (previously presented) An apparatus according to claim 86, wherein said method further includes the steps of:

receiving a selection of a portion of an image, said portion of said image includes a set of colors;

receiving a first blending value for said set of colors; and storing said first blending value.

88. (previously presented) An apparatus according to claim 87, wherein: said steps of accessing and using include the steps of:

accessing a first pixel in said video,

comparing a first color value for said first pixel to a color map, said color map stores color values and corresponding blending values, and

identifying a first blending value corresponding to said first color value based on said color map; and

said step of causing a blending includes using said first blending value as part of a process to blend said first pixel with a corresponding pixel in said graphic.

89. (previously presented) An apparatus according to claim 85, wherein:

said step of receiving a graphic includes receiving two dimensional position information for said graphic created in relation to a two dimensional image; and

said method further includes the steps of:

converting a first set of one or more two dimensional positions to one or more three dimensional locations, said first set of one or more two dimensional positions correspond to said two dimensional position information for said graphic, and

converting said one or more three dimensional locations to a second set of one or more two dimensional positions, said step of blending includes blending said graphic with said video based on said second set of one or more two dimensional positions.

90. (previously presented) An apparatus according to claim 85, wherein said method further includes the steps of:

smoothing said graphic prior to said step of blending, said graphic is a drawing.

91. (previously presented) An apparatus according to claim 85, wherein said step of causing a blending includes:

adding said graphic to a first video image at a first position in said first video image; adding said graphic to a second video image at a second position in said second video image;

said first position is different than said second position;

said first position corresponds to a position of an image of a first portion of said surface in said first video image; and

said second position corresponds to a position of said image of said first portion of said surface in said second video image.

92. (previously presented) An apparatus, comprising: one or more processors;

a drawing device in communication with said one or more processors;

an output device in communication with said one or more processors; and

at least one storage device in communication with said one or more processors, said one or more processors perform a method comprising the steps of:

receiving video, said video depicts a surface at said live event,

receiving two dimensional position information for at least a portion of a graphic created in relation to a two dimensional image,

converting a first set of one or more two dimensional positions to one or more three dimensional locations, said first set of one or more two dimensional positions correspond to said two dimensional position information,

converting said one or more three dimensional locations to a second set of one or more two dimensional positions, and

causing a blending of said graphic with said video based on said second set of one or more two dimensional positions.

93. (previously presented) An apparatus according to claim 92, further comprising:

a first set of one or more camera view sensors, said method further includes the step of receiving camera sensor data for a first camera from said first set of one or more camera view sensors, said video being captured by said first camera, said step of converting said one or more three dimensional locations to a second set of one or more two dimensional positions is performed based on said camera sensor data for said first camera.

94. (previously presented) An apparatus according to claim 93, further comprising:

a second set of one or more camera view sensors, said method further including the step of receiving camera sensor data for a second camera from said second set of one or more camera view sensors, said two dimensional image being captured by said second camera, said step of converting said first set of one or more two dimensional positions to one or more three dimensional locations is performed based on said camera sensor data for said second camera.

95. (previously presented) An apparatus according to claim 92, further comprising:

a first set of one or more camera view sensors, said method further including the step of receiving camera sensor data for a first camera from said first set of one or more camera view sensors, said two dimensional image being captured by said first camera, said step of converting said first set of one or more two dimensional positions to one or more three dimensional locations is performed based on said camera sensor data for said first camera.

96. (previously presented) An apparatus according to claim 92, wherein: said first set of one or more two dimensional positions pertains to only a new portion of said graphic; and

said one or more three dimensional locations pertain to said graphic in its entirety.

97. (previously presented) An apparatus according to claim 92, wherein said method further includes the step of:

smoothing said graphic prior to said step of blending, said graphic is a drawing.

98. - 104. (cancelled)

105. (currently amended) A method according to claim 103, wherein: A method for annotating video, comprising:

receiving video, said video depicts a surface at a live event;

manually adding a graphic to said video during said live event; and

maintaining said graphic in said video such that said graphic appears to be drawn on said surface, said manually adding and maintaining includes adding a pre-defined image into said video;

wherein said step of adding a pre-defined image includes determining an amount of time that a touch screen is engaged and adding said pre-defined image if said touch screen is engaged for less than a predetermined amount of time.

106. (cancelled)

107. (currently amended) A method according to claim 103, wherein said step of adding a pre-defined image comprises the steps of: A method for annotating video, comprising:

manually adding a graphic to said video during said live event; and
maintaining said graphic in said video such that said graphic appears to be drawn on

maintaining said graphic in said video such that said graphic appears to be drawn on said surface, said manually adding and maintaining includes adding a pre-defined image into said video;

wherein adding a pre-defined image includes:									
receiving a first two dimensional position in said video corresponding to said									
pre-defined image; <u>image,</u>									
converting said two dimensional position to a three dimensional location in									
relation to said live event; event,									
converting said three dimensional location to a second two dimensional									
position in said video; video, and									
blending said pre-defined image with said video at said second two									
dimensional position.									

108. (previously presented) A method according to claim 107, further comprising the steps of:

receiving camera sensor data for a first camera, said video being captured by said first camera, said step of converting said three dimensional location is based on said camera sensor data for said first camera.

- 109. (previously presented) A method according to claim 107, wherein: said pre-defined image is initially added to a first video field; and said step of maintaining includes blending said pre-defined image with a second video field later in time than said first video field.
- 110. (previously presented) A method according to claim 107, wherein: said pre-defined image is initially added to a first video field from a first camera; and said step of maintaining includes blending said pre-defined image with a second video field from a second camera.
- 111. (previously presented) A method according to claim 107, further comprising the step of:

creating a model of at least a portion of said surface, said step of converting two dimensional position to a three dimensional locations is performed using said model.

112. – 115. (cancelled)

116. (currently amended) An apparatus according to claim-115, wherein: An apparatus for annotating video, comprising:

a storage medium; and

one or more processors in communication with said storage medium, said one or more processor perform a method comprising:

receiving video, said video depicts a surface at a live event,

manually adding a graphic to said video during said live event, and

maintaining said graphic in said video such that said graphic appears to be

drawn on said surface, said manually adding and maintaining include adding a predefined image into said video;

wherein prior to adding said graphic to said video, at least a portion of said video depicts at least a portion of said surface at said live event and a set of one or more objects occluding said surface; and

wherein said steps of adding and maintaining include adding said pre-defined image with said portion of said video without drawing said pre-defined image over said objects.

117. - 122. (cancelled)

123. (currently amended) An apparatus according to claim 115, wherein: An apparatus for annotating video, comprising:

a storage medium; and

one or more processor in communication with said storage medium, said one or more processor perform a method comprising:

receiving video, said video depicts a surface at a live event,

manually adding a graphic to said video during said live event, and

maintaining said graphic in said video such that said graphic appears to be

drawn on said surface, said manually adding and maintaining include adding a pre-defined image into said video;

wherein said steps of manually adding and maintaining are performed without using image recognition.

- 124. (cancelled)
- 125. (cancelled)
- 126. (currently amended) One or more processor readable storage devices according to claim 125, wherein: One or more processor readable storage devices for storing processor readable code, said processor readable code for programming one or more processors to perform a method comprising:

receiving video, said video depicts a surface at a live event;

providing for the manual addition of a graphic to said video during said live event;

<u>and</u>

maintaining said graphic in said video such that said graphic appears to be drawn on said surface, said providing and maintaining include adding a pre-defined image into said video;

wherein prior to adding said graphic to said video, at least a portion of said video depicts at least a portion of said surface at said live event and a set of one or more objects occluding said surface; and

wherein said step of maintaining include adding said pre-defined image with said portion of said video without drawing said pre-defined image over said objects.

127. – 142. (cancelled)